



#### **Discussion Goals**

- Use the Theory of Planned Behavior model to define & clarify the strength of influences that prevent individuals from acting
- Participate in a dialogue about projects and methods to overcome the challenges
- Gather project implementation strategies and model programs to incorporate into a handout document



## Theory of Planned Behavior

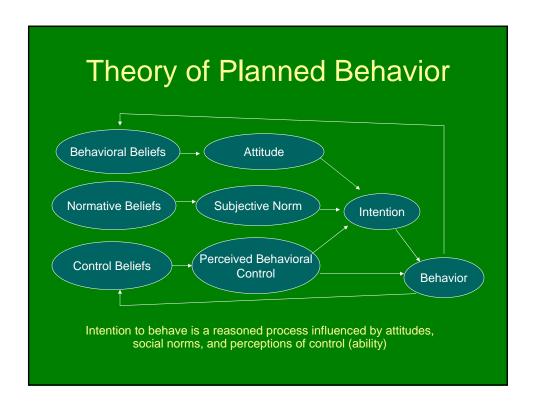
Attitude (AT) Evaluation of the behavior based on the positive or negative beliefs related to the outcome of behavior

Subjective norms (SN) - Perceived social pressure regarding performance of the behavior

- · Motivated by social rewards and punishments
- Motivated by the perception that others are doing the same thing

Perceived behavioral control (PBC) Perceived mental and physical abilities, willingness, and mandates that influence performance of a behavior.

Fishbein and Ajzen 1975, Ajzen 1985, Cialdini et al 1991





### **Knowledge Barriers**

- Although people are willing to pay more for alternative landscape designs, adoption is impeded by...
  - Local ordinances and homeowner's association restrictions
  - Lack of knowledge about plant materials and design
  - Lack of understanding of installation or maintenance
  - Lack of adequate plant availability and knowledge

#### **Normative Barriers**

- Alternative landscape designs are rarely chosen by homeowners, owing both to consumer and community aesthetics and to the time and expense of alternatives
- Challenging the normative landscape appearance is difficult at best and in many cases, nearly impossible.
- The residential lawn as an ordered monoculture has proven nearly intractable to reform

# Perceived Behavioral Control Barriers

- Knowledge
- Ability
- Mandates and policies
- Costs and market values



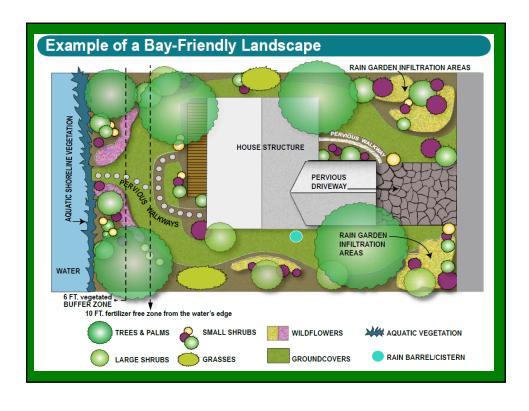
# Why We Selected Barriers

- In tandem and closely linked to landscape design and aesthetics is the use of fertilizers and chemicals in residential landscape management
- Social and attitudinal influences are linked









### Barriers

- Appearance preferences
- Regulations
- Don't value environment
- Maintenance knowledge and perceived costs
- Implementation barriers



## Barrier 1: Appearance Preferences

- Unkempt appearance, security issues, normative appeal of bright green lawn, curb appeal
- Target: Homeowners
- Type of Influence: Attitudinal, Social norm



# Barrier 2: Regulations

- HOA Mandates
- Target: homeowners
- Type of Influence: Perceived control/constraint, Social Norm, Attitudinal



#### Barrier 3: Environmental Value

- Do not value environmental quality or biodiversity, wildlife
- Target: Homeowner
- Type of Influence:
  Attitudinal and Social
  Norm



#### Barrier 4: Maintenance and Costs

- Maintenance knowledge
- Perceived costs
- Target: homeowner and professional landscapers
- Type of Influence: knowledge, awareness, perceived control/constraint

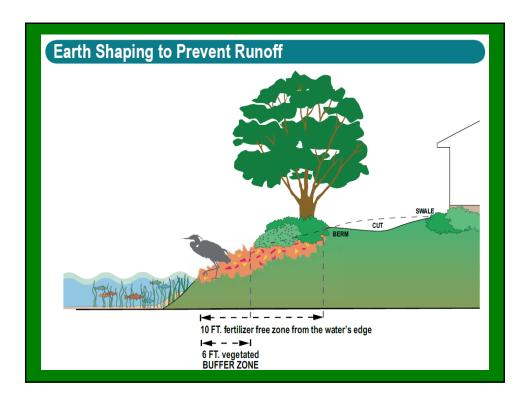


# Barrier 5: Implementation

- Design knowledge, adequate plant materials
- Target: homeowner and landscape professional
- Type of Influence: knowledge, awareness, perceived control/constraint



Potential influences on intent to behave	Target	Type of Influence on Behavioral Intention	Methods for Overcoming
Appearance preferences, (Unkempt appearance security issues, Normative appeal of bright green lawn, Curb appeal)	Homeowner	Attitudinal Social Norm	Demo, tour, designs, workshop, recognitions
Regs: HOA mandates	Homeowner	Perceived control/constraint Social Norm Attitudinal	Model mandates, Revolution
Don't value environmental quality or biodiversity, wildlife	Homeowner	Attitudinal Social Norm	Bioblitz/ecosystem workshops, recognition, IPM
Maintenance knowledge and perceived costs more	Homeowner and professional landscaper	Knowledge/awareness Perceived control/constraint	Tour, workshops, cost effectiveness information, professional training with licensing, homeowner interact with company, regulations, gardening
Implementation barriers (design knowledge, adequate plant materials)	Homeowner and professional landscape	Knowledge/awareness Perceived control/constraint	Model landscape designs, resource lists of local professionals



# Strategies to Overcome Attitudes

- Target gardeners, people who like to be in their yard
- Conduct birding and wildlife workshops
- Engage folks who value environment and biodiversity



## Strategies to Overcome Norms

- Showcase
- Stewards and leaders
- "Marketplace" concepts
- Awards and recognition
- Success stories



# Strategies to Overcome Knowledge and Cost

- Tie landscape actions to water quality
- How to design, plant and fund
- Cost share grants, in-kind donations, volunteers
- Build partnerships with service providers
- Technical assistance



